NC/QC/YPD/2020-21/W5-TH-CD1 Date: 02-07-2021

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Dense Graded Bituminous Macadam.
(Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.)

Ref.: Material testing/PMC/20-21.
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

TABLE 1.1 ;

Sl. No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	23.06%	Not more than 27.00 % for DBM
2.	Combined Flakiness and Elongation index, %	26.78%	Not more than 35.0 %
3.	Water absorption, %	0.42%	Not more than 2.0 %
4.	Specific gravity	2.62	------
5.	Soundness	6.86 %	Max. 12 % in Sodium Sulphate

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 5th Cross Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NC/QC/YPD/2020-21/WS-TH-DBM1 Date: 05-07-2021

LIEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub To determine the percentage of bitumen and gradation for DBM mix sample (Project*. Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.)

Ref. Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = 4.51 %

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specifications-2013 DBM (Grading – 2)
37.5	100	100
26.5	97.25	90-100
19.0	84.15	71-95
13.20	72.40	56-80
4.75	46.70	38-54
2.36	32.05	28-42
0.300	18.90	7-21
0.075	5.40	2-8

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 6th Cross Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/W5-TH-DS1

Date: 05-07-2021

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.
{Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1238**	900
2	Marshall Flow at 60°C, mm.	**3.14**	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 7th Cross Road

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NC/QC/YPD/2020-21/W5-TH-DBM2

Date: 06-07-2021

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

{Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.52 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	100	100
26.5	95.45	90-100
19.0	82.55	71-95
13.20	74.60	56-80
4.75	48.10	38-54
2.36	34.80	28-42
0.300	17.25	7-21
0.075	6.15	2-8

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : 1st Main Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NEW TECHNOLOGIES IN INNOVATIVE

NABL ACCREDITED LABORATORY (TC-10852)

Date: 06-07-2021

LABORATORY ON BITUMINOUS MIXES
(SUITABILITY OF BITUMINOUS MIX)

Sub : To determine the stability of bituminous mix for DBM mix sample
(Project : Improvements of roads and drains at Dharmambudhi Lake road and Surrounding area in Ward No 03 (Jakkur) Byatarayanapura Sub division)

Ref: Manual testing PMR/ 20-21,

Report Required for : Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore

Name of the Agency/Contractor: Sri. T Ramesh Anand, Bangalore

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs	1256	900
2	Marshall Flow at 60°C, mm	3.42	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work
Sample Collected Site : 5th Cross Road

Asst. Executive Engineer
Project Division
Yelahanka
BBMP, Bangalore

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NC/QC/YPD/2020-21/WS-TR-DS3

Date: 06-07-2021

LTEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.
{Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1259**	900
2	Marshall Flow at 60°C, mm.	**3.26**	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 7th Cross Road

Page No. 1/1

Assistant Executive Engineer
Yelahanka Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NEW TECHNOLOGIES TO INNOVATE

NCQC/VPD/2020-21/W5-TIS-BBH

Date: 05-07-2021

I. TEST REPORT ON BITUMEN SAMPLE:-

Sub: Testing of Bitumen sample VG-30 Grade.

(Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.15 (Jakkur) Byatarayanapura Sub division.)

Ref.: Material testing/PMC/20-21.

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE I.1 :

Sl. No	Details	Test Results	Requirements as per I.S 73-1992 Specifications
1.	Penetration at 25° C	51.40° C	Min. 45
2.	Ductility Value at 25° C	109.0 cm	40
3.	Flash point	236° C	Minimum 220° C
4.	Softening point	50.40° C	Min. 47

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : 1st Main Road

Asst. Engineer
Project Division
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BBMP, Bangalore - 92

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NC/QC/YPD/2020-21/W5-TH-CB1 Date: 05-07-2021

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Bituminous Concrete.
{Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

TABLE 1.1 ;

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	22.86 %	Not more than 24.00 %
2.	Combined Flakiness and Elongation index, %	27.54 %	Not more than 35.0 %
3.	Water absorption, %	0.42%	Not more than 2.0 %
4.	Specific gravity	2.62	------
5.	Soundness	5.36%	Max. 12 % in Sodium Sulphate

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 5th Cross Road

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NC/QC/YPD/2020-21/W5-TH-BC1

Date: 07-07-2021

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.43 %**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	100	100
13.2	98.25	90-100
9.5	84.10	70-88
4.75	63.50	53-71
2.36	53.25	42-58
1.18	45.35	34-48
0.600	32.75	26-38
0.300	25.60	18-28
0.150	17.25	12-20
0.075	8.15	4-10

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 6th Cross Road

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NEW TECHNOLOGIES IN INDIA

NCAN/YPD/2020-21/WS/TR/881 Date: 07.07.2021

LATEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub. : To determine the stability of bituminous mix for BC mix sample.
(Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.03 (Jakkur) Byatarayanapura Sub division.)
Ref. : Material testing/PMC/20-21,
Report Required for : Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor* : Sri. E Ramesh Anand, Bangalore.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete Grade-2 as per M.o.R.T (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1368	900
2	Marshall Flow at 60°C, mm.	3.46	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 7th Cross Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NC/QC/YPD/2020-21/W5-TH-BC2

Date: 08-07-2021

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.41%**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**96.25**	90-100
9.5	**82.10**	70-88
4.75	**65.45**	53-71
2.36	**51.80**	42-58
1.18	**39.70**	34-48
0.600	**31.50**	26-38
0.300	**23.60**	18-28
0.150	**18.25**	12-20
0.075	**7.40**	4-10

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 1st Main Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

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NC/QC/YPD/2020-21/W5-TH-BS2

Date: 08-07-2021

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.
{Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1352	900
2	Marshall Flow at 60°C, mm.	3.40	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 7th Cross Road

29.07.21

Asst. Executive Engineer
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Yelahanka Zone
BBMP, Bangalore -92

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NC/QC/YPD/2020-21/W5-TH-D1 Date: 28-06-2021

TEST REPORT ON DRY LEAN CONCRETE
(GRADATION TEST)

Sub: To conduct Gradation test on Dry Lean Concrete (DLC) Mix.
{Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
26.50	100	100
19.00	91.25	75-95
9.50	65.10	50-70
4.75	49.35	30-55
2.36	36.90	17-42
0.600	18.55	8-22
0.300	14.35	7-17
0.150	10.05	2-12
0.075	6.45	0-10

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 1st Cross Road From End

Asst. Executive Engineer
Project Division
Yelahanka Zone
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NC/QC/YPD/2020-21/W5-TH-D2 Date: 29-06-2021

TEST REPORT ON DRY LEAN CONCRETE
(GRADATION TEST)

Sub: To conduct Gradation test on Dry Lean Concrete (DLC) Mix.
{Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
26.50	100	100
19.00	86.45	75-95
9.50	62.15	50-70
4.75	48.25	30-55
2.36	34.80	17-42
0.600	17.30	8-22
0.300	15.05	7-17
0.150	8.90	2-12
0.075	5.25	0-10

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 2nd Cross Road From End

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NC/QC/YPD/2020-21/W5-TH-D3

Date: 30-06-2021

TEST REPORT ON DRY LEAN CONCRETE

(GRADATION TEST)

Sub: To conduct Gradation test on Dry Lean Concrete (DLC) Mix.
{Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
26.50	100	100
19.00	89.55	75-95
9.50	67.15	50-70
4.75	48.35	30-55
2.36	34.80	17-42
0.600	19.05	8-22
0.300	14.25	7-17
0.150	9.45	2-12
0.075	7.10	0-10

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 3rd Cross Road From End

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/W5-TH-D4 Date: 02-07-2021

TEST REPORT ON DRY LEAN CONCRETE

(GRADATION TEST)

Sub: To conduct Gradation test on Dry Lean Concrete (DLC) Mix.
{Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
26.50	100	100
19.00	94.30	75-95
9.50	59.75	50-70
4.75	36.10	30-55
2.36	22.80	17-42
0.600	15.70	8-22
0.300	9.20	7-17
0.150	6.90	2-12
0.075	2.05	0-10

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 4th Cross Road

Asst. Executive Engineer
Yelahanka Project Division
BBMP, Bangalore - 92

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NC/QC/YPD/2020-21/W5-TH-D5 Date: 08-07-2021

TEST REPORT ON DRY LEAN CONCRETE

(GRADATION TEST)

Sub: To conduct Gradation test on Dry Lean Concrete (DLC) Mix.
{Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
26.50	100	100
19.00	89.40	75-95
9.50	67.15	50-70
4.75	52.90	30-55
2.36	34.25	17-42
0.600	17.55	8-22
0.300	15.30	7-17
0.150	9.75	2-12
0.075	7.05	0-10

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 1st Block 1st Cross Road

NEWZEN CONSULTANT * Bangalore *

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/W5-TH-D6 Date: 09-07-2021

TEST REPORT ON DRY LEAN CONCRETE

(GRADATION TEST)

Sub: To conduct Gradation test on Dry Lean Concrete (DLC) Mix.
{Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
26.50	100	100
19.00	91.85	75-95
9.50	64.10	50-70
4.75	49.65	30-55
2.36	35.40	17-42
0.600	18.95	8-22
0.300	12.20	7-17
0.150	7.75	2-12
0.075	5.10	0-10

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 8th Cross Road

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NC/QC/YPD/2020-21/W5-TH-CR1

Date: 19-07-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	12-07-21	19-07-21	07	22500	560	24.89	**25.26**
	002	"	"	"	"	575	25.56	
	003	"	"	"	"	570	25.33	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 1st Cross Road From End

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NC/QC/YPD/2020-21/W5-TH-CR2

Date: 19-07-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	12-07-21	19-07-21	07	22500	565	25.11	**25.04**
	002	"	"	"	"	550	24.44	
	003	"	"	"	"	575	25.56	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 2nd Cross Road From End

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